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ABSTRACT

Included in this teacher's guide are: (1) a list of language arts activities to supplement COAST learning experiences; (2) additional activities for grades 3-5 emphasizing vocabulary development and developing scrapbooks; and (3) eight activities for using children's books about the marine environment in the classroom in grades 1-6. The appendix includes an annotated list of children's books about the environment. (RH)

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LANGUAGE ARTS ACTIVITIES TO SUPPLEMENT COAST LEARNING EXPERIENCES

A Learning Experience for
Coastal and Oceanic
Awareness Studies

U S DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

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UNIVERSITY OF DELAWARE

as part of a

PLAN FOR ENVIRONMENTAL EDUCATION

Fall 1976

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Please send evaluations

of learning experiences

to

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COAST Project

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Newark, Delaware 19711

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TITLE: LANGUAGE ARTS ACTIVITIES TO SUPPLEMENT COAST LEARNING EXPERIENCES

*CONCEPT: I.

I. THE EARTH IS A FINITE NATURAL SYSTEM.

**MARINE CONCEPTS: 1, 2, 3, and 4

1. AN ABUNDANCE OF WATER MAKES THE EARTH UNIQUE IN OUR SOLAR SYSTEM.
2. THE OCEANS INTERACT WITH THE EARTH AND ITS ATMOSPHERE.
3. MARINE ORGANISMS INTERACT IN COMPLEX ECOSYSTEMS.
4. MAN IS PART OF THE MARINE ECOSYSTEM.

GRADE LEVEL: K-6

SUBJECT: Language Arts

CLASS PERIODS: Various

AUTHORS: Medlin and Dill

*From A Conceptual Scheme for Population-Environment Studies, 1973. Cost $2.50.

**From Marine Environment Proposed Conceptual Scheme, 1973. No charge.

Both conceptual schemes are available from Robert W. Stegner, Population-Environment Curriculum Study, 310 Willard Hall, University of Delaware, Newark, DE 19711.

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Appendix: Annotated List of Children's Books about the Marine Environment

A LIST OF LANGUAGE ARTS ACTIVITIES TO SUPPLEMENT COAST LEARNING EXPERIENCES

The language arts provide students with the necessary skills to unlock the content areas of science, math, social studies, and literature. Language arts skills are a necessity to the acquisition of knowledge. Therefore, it seems appropriate that while furthering the skills in the language arts areas (listening, oral and written expression, dramatics, and literature), teachers can work toward developing a sensitivity to our coastal and oceanic environments.

The language arts activities listed below have been included as supplements to some of the COAST learning experiences and were developed for infusion into existing school curricula. Most of the activities were designed for use in the elementary grades K-6.

#3 MARINE AQUARIA

Grades K-1 Initial Consonants

Grades 2-3 Sentences in Sequence

Grades K-3 Creative Writing

Grades K-3 Book Activity

Grades 4-6 Matching Activity

Grades 4-6 Words to Unscramble

Grades 4-6 Additional Activities

Suggested Book List

#101 ANIMALS WITH SHELLS

Grades K-1 "Pictionaries"--Beginning Sounds Exercise

Grades 1-3 Camera--Word Recognition Game

Grades 2-3 Following Directions/Listening Exercise

Suggested Book List

#102 CAPE HENLOPEN--A WEEKEND OR TWO-DAY TRIP

Grades K-1 Poetry--Rhyming Words

Grades 2-3 Seafood Soup--Creative Writing

Grades 2-3 Dictionary Work

Suggested Book List

#103 THE "COMPLETE" SEASIDE NATURE TRAIL

Grades K-1 Seashore Riddles

Grades 2-3 Creative Writing--Rebus Stories

Grades 2-3 Similes

Suggested Book List

#104 WATER FOR FUN

Grades 1-3 Pocket Full of Syllables--Learning Center (or Board Activity)

Grades 1-3 Sentence Making--Learning Center

Suggested Book List

#105 SHIPS AND SEAWAYS

Grades K-1 Cargo Ship--Beginning Sounds Exercise

Grades 2-3 Dictionary Work

Grades 2-3 Letter Writing

Suggested Book List

#106 TEACHER'S GUIDE TO PAGOO

Grades 1-3 Poet's Hangout--Poetry Exercise

Grades 2-3 Rhyme Ring Game

Grades 4-6 Reading Skill--Word Perception

Suggested Book List

#107 THE DUNES AT PLAY

Grades K-1 Recognizing Doubles

Grades 2-3 Using Quotation Marks

Grades 2-3 Haiku

Suggested Book List

#108 THE MUSKRAT

Grades 1-3 Individual Storybooks

Grades 2-3 Scrambled Eggs--Writing Complete Sentences

Grades 2-3 Person, Place, or Thing--Grammar Exercise

Suggested Book List

#109 THE NOT-SO-COMMON OYSTER

Grades 1-3 What Happened Next?--Creative Writing

Grades 2-3 Memory

Grades 2-3 Dictionary Work

Suggested Book List

#110 SHIPS THROUGH THE AGES

Grades 1-2 Taking a Sea Voyage--Alphabetical Order

Grades 2-3 Telling and Asking Sentences

Grade 3 Action Reporters--Creative Writing

Grades 4-6 Research

Grades 4-6 Time Line

Grades 4-6 Model Building or Drawing

Grades 4-6 Creative Writing

Grades 4-6 Comparing and Contrasting--Comprehension and Study Skills

Suggested Book List

#111 THE HORSESHOE CRAB

Suggested Book List

#112 USEFUL PLANTS OF THE SEA

Suggested Book list

#113 ANIMAL BEHAVIOR--MUD SNAIL RESPONSES

Grades 4-7 Creative Writing

Suggested Book List

#114 EXPLORING A POND

Grades K-1 Listening Exercise--Poetry

Grades 1-3 Sequence of Events

Grades 2-3 Word Meanings

Suggested Book List

#115 WATER: THE COMMON WASTE RECIPIENT

Suggested Book List

#201 THE BLUE CRAB

Grades 5-8 Writing Cinquains

Suggested Book List

#202 DISTRIBUTION OF SALT MARSH LIFE

Grades 5-8 Class Mural and Research Activity

Suggested Book List

#203 TEACHER RESOURCE GUIDE TO THE FILM "CRISIS IN THE ESTUARY"

Suggested Book List

#204 THE NOISY DEEP

Suggested Book List

#205 TESTING WATER FOR BACTERIAL POLLUTION

Suggested Book List

#206 TEACHER RESOURCE GUIDE TO THE FILM "THE ENDANGERED SHORE"

Suggested Book List

#207 CAPE HENLOPEN LIGHTHOUSE--HOW, WHEN, WHERE?

Grades 5-6 Research, Report and Discussion

Grades 5-6 Creative Writing

#208 CAPE HENLOPEN--A MULTIDISCIPLINARY STUDY

Suggested Book List

#209 WHERE HAVE ALL THE MENHADEN GONE?

Suggested Book List

#214 THE MOON, THE SUN, AND TIDES

Suggested Book List

ADDITIONAL ACTIVITIES

Ecology Scrapbook (Grades 4-5)

Make a class ecology scrapbook. Give the following directions to the class:

1. Find a news article to put in the ecology scrapbook.
2. Read the article and cut it out.
3. Paste the article on a sheet of paper that can be put in the scrapbook.
4. Write a sentence about the major problem the article discusses.
5. Write a statement of your opinion of the article.
6. Sign the page with your name.

Conservation Scrapbook (Grades 3-5)

Give the following directions to the class:

Our natural resources are very valuable. Some of the resources we must treat wisely are soil, water, wildlife, forests, oil, and wetlands.

With a friend, make a conservation scrapbook. Plan a chapter for each resource mentioned above. Some things you might want to do for your scrapbook are to:

1. Cut out magazine and newspaper articles and pictures for each chapter.
2. Write a short report about each topic. Draw and color pictures to to with your reports.
3. Take photographs to illustrate each topic.
4. Draw cartoons about each topic.
5. Make copies of poems you like about conservation topics.
6. Do anything else you think would make your conservation scrapbook interesting, informative, and descriptive of the need for conservation of our natural resources.

Once a week, show your scrapbook to your classmates and explain what it tells about conservation.

Plan a conservation bulletin board for the classroom.

Learn Some New Words (Grades 3-5)

Make copies of the handout on p. 8 and give each student a copy.

Learn Some New Words

1. When we read and talk about ecology and conservation, we use some special words. Some of them are underlined in these sentences. Pronounce each one. Do you know its meaning?

Coal and oil are fossil fuels.

We don't want the whooping crane to become extinct.

Much waste material could be recycled.

We have a great deal of unnecessary stream and river pollution.

Conservation is the wise use of natural resources.

Draining salt marshes decreases the flow of nutrients to coastal waters.

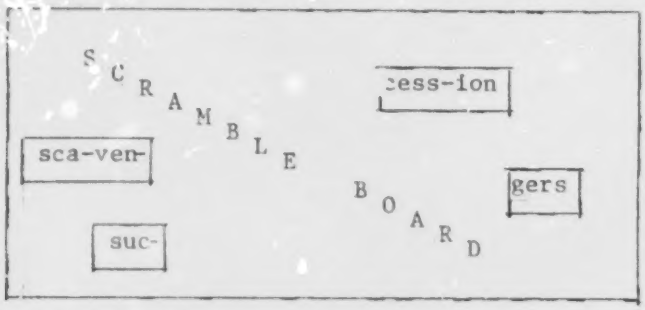
2. Start a list of ecology and conservation words. Put it on a large chart or in a special section of the chalkboard. Learn how to pronounce each word and be ready to tell its meaning. Ask others to add to the list. Here are some words to start with:

environment
herbicide
pesticide
consumer
producer
ecosystem

3. Start a class ecology dictionary. Use a loose-leaf notebook with one sheet for each word. Write the word and its meaning. Cut out a picture from a magazine or make a drawing to help show what each word means. Keep adding to the dictionary as you learn new words.

Introducing New Words Using a Scramble Board (Grades 4-5)

One way to introduce new words is to use a scramble board. Divide a bulletin board into halves diagonally and place the first parts of the new words in the lower left-hand portion of the bulletin board and the second parts of the new words in the upper right-hand portion. Ask students to match the two parts to make a word. Pictures or charts illustrating the new words can accompany the display.



Some words to include:

zon-a-	tion
suc-	cess-ion
com-mun-	i-ty
pop-u-	la-tion
en-vi-	ron-ment
pro-	duc-ers
con-	sum-ers
sca-ven-	gers
a-dap-	ta-tion
mu-	ta-tion
re-gen-	er-a-tion
com-	men-sal
pre-	da-tors

USING CHILDREN'S BOOKS ABOUT THE MARINE ENVIRONMENT IN THE CLASSROOM

The list of children's books on the marine environment (see Appendix) can be used in a variety of ways. Not only can the books on the list be used to expand the student's knowledge of the marine environment, but they can also be used to strengthen the student's ability to read books thoughtfully and analyze them critically. The following exercises are designed to achieve this goal by making students aware of the components of literature and different literary forms.

Exercise 1: Comparing Informational Books and Books of Fiction

PURPOSE: To help students distinguish between informational books and books of fiction using books from the list of children's books on the marine environment (Appendix).

MATERIALS: Have at least one informational book and one book of fiction on the same general topic available for the students to read.

Examples:

Primary Level: Informational - Fishes. Loren P. Woods
Fiction - Fish Is Fish. Leo Lionni

Intermediate Level: Informational - The Life of the Seashore. William Amos.
Fiction - The Mystery of the Red Tide, Frank Bonham

PROCEDURE: Reading should be done individually or in small groups prior to the discussion. After the students are familiar with both books, guide a discussion of any similarities or differences found in the books.

Put the titles on the board and lead the students to compare the books with respect to each author's use of facts, illustrations, and imaginary elements and purpose. The following chart may be used as a guide. All of the information should be drawn from the students.

	The Life of the Seashore	The Mystery of the Red Tide
Facts:	Names and describes the plants and animals found in and by the sea	Identification of organisms found in a tide pool.
Use of Pictures:	Pictures show what the author is explaining	Pictures of the characters in the story
Imaginary Parts:	None	The characters and their adventures on the coast
Author's Purpose:	To give information	To tell a story for enjoyment
Kind of Book:	Informational	Fiction (may be based on fact but has imaginary parts

SUMMARY: Ask the students to classify other books they have read as informational books or books of fiction. When a book is classified, help the students to validate their judgments by briefly checking the book against the above information.

Exercise 2: Informational Books

PURPOSE: To help students develop criteria for evaluating informational books.

MATERIALS: Make several informational books from the list of children's books on the marine environment (Appendix) available for group or individual reading prior to a discussion.

Example: Primary Level: Let's Look at Seashells, Phyllis J. Perry.
The Sandpipers, Edith Thacher Hurd.

Intermediate Level: Animals of the Sea, Marcelle Verite
The First Book of the Seashore, Wyatt Blassingame

PROCEDURE: After the students have read the books, discuss the following questions.

In General

1. Do you use different criteria to evaluate an informational book than you do for other books, such as books of fiction?
2. What special elements do you look for in an informational book?

Accuracy and Authenticity

1. What are the author's qualifications?
2. Are the facts accurate?
3. Is the subject well covered?
4. Do the text and illustrations omit anthropomorphism?

Content and Perspective

1. Why was the book written?
2. Is it interesting and understandable?
3. Is the subject well-covered?
4. Does the book encourage a spirit of inquiry?

Style

1. Is the information stated clearly and directly?
2. Is the language interesting and realistic?
3. Can it be understood by the reader for whom it was written?

Organization

1. Is the information arranged clearly and in order?
2. Are there reference aids, such as a table of contents, index, and bibliography?
3. Is there a glossary included for vocabulary?

Illustrations and Format

1. Do the illustrations clarify and extend the text?
2. Are size relationships made clear?
3. Are the pictures well labeled and explanatory?
4. Does the overall format add to the clarity and attractiveness of the book?

Exercise 3: Historical Fiction

PURPOSE: To recognize the characteristics of historical fiction and develop criteria for evaluating it.

MATERIALS: Have some examples of historical fiction available for individual or group reading prior to a discussion. Examples of historical fiction from the list of children's books on the marine environment (see appendix) include:

Primary Level: Pea Patch Island, Polly Curran and Ronald Himler.

Intermediate Level: Island of the Blue Dolphins, Scott O'Dell.

PROCEDURE: Use the following questions to guide a discussion of the book:

1. Why is the book called historical fiction?
2. Where does the story take place and in what time in history?
3. Are there any charts, maps, or graphs?
4. Who are the characters? Who is the main one?
5. What is the main action? What is the historical significance?
6. What country or countries are involved?
7. Is the material factual or mostly imaginary?
8. Do you understand the historical part better after having read a story about it?
9. What is your opinion of the book? Would you recommend it to your classmates?

ACTIVITY: Write a short description of a character or scene from the book. Draw a picture for the bulletin board.

Exercise 4: Biography

PURPOSE: To help students develop criteria for evaluating biographies.

MATERIALS: Have a biography from the list of children's books on the marine environment (see appendix) available for group or individual reading.

Examples:
Admiral Nelson, H. Bellis.
Captain Cook, H. Bellis
Captain Cook, Pacific Explorer, Ronald Syme

PROCEDURE: Use the following questions to conduct a discussion of the book.

1. Do we judge a biography with the same criteria we use to judge fiction?
2. What makes a biography different from other types of books?
3. Who is the book about? Where was the person born? When?
4. What is the person well-known or famous for?
5. Are the facts accurate?
6. What were the person's strengths and weakness?
7. Is this a complete biography or does it just cover one portion of the person's life?
8. List three things you learned about this person.
9. Did you enjoy the book?

Exercise 5: Poetry

PURPOSE: To help students recognize some of the characteristics of poetry.

MATERIALS: Selected poems. An example of a book of poetry from the list of children's books on the marine environment is Great Sea Poetry, edited by Willard Bascom.

PROCEDURE: Use the following questions to discuss poems read individually, in small groups, or as a class.

1. What is the title of the poem and who is the author?
2. What does the poem do?
   a. Tells a story_____
   b. Presents a picture_____
   c. Expresses and emotion_____
   d. Teaches a lesson_____
3. What is the setting (time and place)? Is it real or imaginary?
4. Is there a theme (main idea)?
5. Is there a problem or conflict? Who or what caused it?
6. Does the poetry rhyme? If so, write down the words that rhyme.
7. Can you find any "sense" words in the poem (words having to do with smell, sound, taste, and touch)? If so, list them.
9. Are there words that are new to you? List them.
10. Would you rate this poem good, fair, or poor?
11. Would you recommend this poem to a classmate? Give two reasons why or why not.

Exercise 6: Fiction

PURPOSE: To help the student develop criteria for evaluating fiction.

MATERIALS: Make available fiction books from the list of children's books on the marine environment (see appendix) for individual or group reading prior to a discussion.

Examples: Primary Level - Fish Is Fish, Leo Lionni
The Biggest House in the World, Leo Lionni

Intermediate Level - Island of the Blue Dolphins, Scott O'Dell
The Mystery of the Red Tide, Frank Bonham
Miss Pickerell Goes Undersea, Ellen MacGregor
The Voyages of Dr. Dolittle, Hugh Lofting

PROCEDURE: Use the following questions to discuss the book.

1. What kind of fiction is it? (realistic fiction, historical fiction, fantasy, mystery, science fiction, etc.)
2. Do the illustrations help you decide what type of book it is?

Structure

1. Time: a. How does the author establish time?
   b. How does time affect the action, characters, or theme?
2. Setting: a. How does the author reveal the setting?
   b. Does the setting influence the action, characters, or theme?
3. Plot: a. Who tells the story?
   b. Is one character the center of interest?
   c. Does the action have a beginning, middle and ending?
   d. Is the plot believable?
   e. Are there subplots?
   f. How does the author reveal the problem or conflict?
   g. Is the story original and unusual?

Characterization

1. How does the author introduce the characters?
2. How are the following described: appearance, actions, ideas, movement, tone of voice, and mood?
3. How are the characters revealed?
4. Do the characters seem real?

Exercise 6: Fiction (cont.)

Theme

1. Did you find a theme or main idea in this book?
2. How is the theme developed?
3. Is there a moral or lesson to the story? Does the author point it out?

Illustrations

1. How is the action of the story reproduced in the pictures?
2. Do the pictures help to create the mood of the story? How?
3. Do the pictures portray the characters correctly and accurately?

Comparisons

1. How is the book similar to or different from others the author has written?
2. How have your friends evaluated the book? Do you agree?

Exercise 7: Comparing and Contrasting Components of Fiction.

PURPOSE: To discuss the similarities and differences between several components of fiction found in the books from the list of children's books on the marine environment (see appendix).

MATERIALS: Two books of fiction from the children's book list on the marine environment.

Examples: Primary Level - Burt Dow: Deep-Water Man. Robert McCloskey
The Flying Lessons of Gerald Pelican. Nathaniel Benchley.

Intermediate Level - The Mystery of the Red Tide, Frank Bonham
Island of the Blue Dolphins, Scott O'Dell

PROCEDURE: After the students have read the two books, use the following guide questions to conduct a discussion of the various components of fiction. It is not necessary to complete the discussion in one day. You may wish to discuss only one or two components each day to make sure the students thoroughly understand each component.

Setting

1. Compare and contrast the settings of both stories.
2. Where and when does each story take place?
3. How do the authors tell the setting of each story?

Explain that setting is important because although people are basically alike, the places they live in and the time during which they live may cause differences in their behavior, customs, occupations, etc.

Exercise 7: Comparing and Contrasting Components of Fiction (cont.)

Characterization

1. Compare and contrast the main characters in the two stories. How are they alike and how are they different?
2. Do they seem like real people?
3. What are their strengths and weaknesses?
4. Do the characters develop and change as the story progresses? How? Are theses changes believable?
5. Is there an antagonist (a character who fights or competes with the main character) in each story? How are the antagonists in the two stories alike and how are they different?
6. Are any of the characters stereotyped?

List the students' responses on the board. Discuss how the author may reveal characterizations through: 1) description; 2) the character's actions; 3) the character's thoughts; 4) what other characters say about him; and 5) illustrations.

Plot

1. Compare and contrast the actions that put the stories in motion.
2. What are the problems or conflicts that the main character in each story encounters? How does he or she overcome them?

Help students understand the development of the plot and story structure by putting the following simple outline on the board.

(1) Beginning action
(2) Story build-up
(3) Climax
(4) Story ending
(5) Moral (sometimes stated)

Theme

1. Compare and contrast the character traits, such as courage, honesty, etc. that you found in each story.
2. Could a real person do the things the characters in the stories did?
3. Can you see any meaning in these stories? What did the authors want to tell the readers?
4. Do the stories have happy endings?
5. In each story,who is responsible for the story's ending the way it does?
6. What do you think is the "big idea" of each story?

List some versions of the theme on the board as the students suggest them. Help the students to see they have attempted to draw from the stories the MAIN IDEA. Be sure they understand that the theme and the plot of a story are different t t closely related.

Exercise 7: Comparing and Contrasting Components of Fiction (cont.)

ACTIVITIES:

1. Draw a picture of or write a character sketch about your favorite character in these two stories.
2. Make a list of adjectives to describe each character in the two stories.
3. Write a different ending for one of the two stories and read it to the class.
4. Make a mobile of the characters in one of the books.

Exercise 8: Theme

PURPOSE: To help students identify the theme of the story and to understand its significance in literature.

MATERIALS: The following three books are suggested. Each book is about a young boy about 13 years old who shows ingenuity and courage in the face of danger.

White Water, Still Water. J. Allan Bosworth. Simon & Schuster. 1969.

Canalboat to Freedom. Thomas Fall. Dell. (A Yearling Book)

Down the Mississippi. Clyde Robert Bulla. Scholastic Book Services. 1954.

PROCEDURE: After the students have read the books, briefly review the plots. Discuss the stories with a special focus on the books' themes. Ask the students the following questions about each book.

1. Briefly describe the main character, his background, and the situation at the beginning of the story.
2. What event cause the action of the story to begin?
3. What role did the river play in the story?
4. Was the river a help or hindrance in the boy's survival?
5. What help did the boy receive from the land, if any?
6. What was the climax of the story?
7. How did the story end?

SUMMARY: List several versions of the themes on the board as the children suggest them.

APPENDIX

ANNOTATED LIST OF
CHILDREN'S BOOKS ABOUT THE MARINE ENVIRONMENT

Project COAST
University of Delaware
January 1977

ABOUT THE BIGGEST SALMON. Will Hayes. Melmont Publishers, Inc. 1961. Grades 3-4. 32 pages. Fiction.

A factual account of the lifespan of one salmon. Could be used as a reference book.

ABOUT RIVERS. Albert Dickey. Melmont Publishers, Inc. 1959. Grades 3-4. 32 pages. Informational. #105, #108, #115*

An explanation about where rivers begin and some of their experiences as they flow along. Black-and-white photographs enhance the appeal of this book.

ADMIRAL NELSON. H. Bellis. McGraw-Hill Book Co. 1968. Grades 5-6. 60 pages. Biography. #110

A biography about the British naval hero, Admiral Horatio Nelson. It tells about him from youth through brilliant career to his death aboard a battleship he commanded. Black-and-white drawings.

ALL ABOUT THE SEA. Ferdinand C. Lane. Random House. 1953. Grades 5-6. 150 pages. Informational. #102, #106, #208

A general exploratory book about marine ecosystem. Tells how the sea began; briefly describes sea life; and concludes with an explanation of man's relationship to sea. Could be used as a listening exercise for lower intermediate children.

ALL KINDS OF SEALS. Bernice Kohn. Random House. 1968. Grades 5-6. 81 pages. Informational.

A descriptive book showing how seals changed from land to sea animals, their environment, and their relationships to man. Could be used as a reference book.

ANIMALS OF THE SEA. Marcelle Verite. Childrens Press. 1964. Grades 4-8. 63 pages. Informational, #3, #102, #106, #109, #208

This brilliantly illustrated book is the American adaptation of the French book Animaux de la Mer. Each of the 25 sections describe a sea animal or group of marine animals. Sections on the Sargasso Sea, the Great Barrier Reef, and the Galapagos Islands are also included. Art work is by Romain Simon.

THE ART AND INDUSTRY OF SANDCASTLES. Jan Adkins. Walker Publishing Co. 1971. Grades 5-8 and all other readers. 29 pages. #107 Informational.

Twenty-nine 11" x 15" hard-cover pages. This unique book cleverly combines the popular seaside occupation of sand castle building with the lives and times of ancient castle dwellers. The handsome monochrome illustrations show the sand castle builder and the how and why of castle construction; they help develop a vocabulary and a historical perspective in the process. Thoroughly enjoyable.

THE BEACHCOMBER'S BOOK. Bernice Kohn. The Viking Press. 1970. Grades 4-8. 96 pages. Informational. #201

For the child who has access to the beach, this book offers suggestions for artistic and scientific activities. How to press seaweeds, how to make beach collages and mobiles are examples. Illustrations are by Arabelle Wheatley. There is an index, a Bibliography, and a brief catalogue of Atlantic and Gulf Coast shells.

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*Numbers indicate COAST learning experiences with which the book could be used.

A BEACHCOMBER'S BOTANY. Loren C. Petry. Chatham Press. 1968. Grades 7-8. 158 pages. Informational.

A detailed account of flora and fauna of the New England Coast. Exquisite pencil drawings of plants and marine algae, with a descriptive account of each, make this a high-interest book.

THE BEACHCOMBER'S HANDBOOK OF SEAFOOD COOKERY. Hugh Zachary. John F. Blair, Publisher. 1969. For all readers. 208 pages. Informational.

More than a cookbook. This is a sincere commentary on seaside conservation. There's a recipe for just about any common marine animal including octopus. The line drawings are decorative. There is a serviceable index.

THE BEAVER POND. Alvin Tresselt. Lothrop, Lee & Shepard Co. 1970. Grades 1-6. 17 pages. Fiction.

Following the construction of a beaver dam, there is a complex and predictable succession of ecological events. This book tells the story of the history of a beaver pond and meadow. There are about 28 illustrations, most of which are in color.

THE BIG BOOK OF REAL BOATS AND SHIPS. George J. Zaffo. Grosset & Dunlap. 1951. Grades 3-6. 25 pages. Informational. #105, #110

Descriptive account of different types of sea-craft. Large pictures help demonstrate different aspects of each craft.

THE BIGGEST HOUSE IN THE WORLD. Leo Lionni. Pantheon Books, Inc. 1968. Grades K-2. 30 pages. Fiction. #101

A story about a snail and his longing for the "biggest house". Large, colorful pictures should enhance the appeal of this book to the youngest readers.

BIRTH OF AN ISLAND. Millicent E. Selsam. Harper and Row Publishers. 1959. Grades K-3. 47 pages. Fiction.

In story fashion the book tells of the birth of an island from an oceanic volcano. Then it describes the natural succession of plants and animals that come to live on the island. Winifred Lubell provided the color illustrations.

THE BLUE WHALE. Kazue Mizumura. Thomas Y. Crowell Co. 1971. Grades 3-4. 34 pages. Informational.

A factual book about whales, especially the blue whale. Includes a message about possible extinction of that animal. Includes pictorial accompaniment to reinforce the facts presented.

A BOOK OF SNAILS. Sally Moffet Kellin. Wm. R. Scott, Inc. 1968. Grades 5-6. 48 pages. Informational.

A reference book about snails includes the snail's life cycle and instructions for keeping them as pets in terrariums. Reference is made to why snails may be considered as pests. Black-and-white photographs help to make this book a good selection for high-interest reluctant readers.

BOOK OF THE SEVEN SEAS. Peter Freuchen. Simon & Schuster, Inc. 1957. Grades 9-12. 512 pages. Informational.

A detailed book about the realm of the oceans of the world. Some of the topics included are the shape of the seas, battles at sea, and treasures of the seas. A highly specialized book for the mature reader who is motivated toward this subject.

THE BOTTOM OF THE SEA. Augusta Goldin. Thomas Y. Crowell Co. 1966. Grades K-2. 34 pages. Informational.

A descriptive book about the land under the ocean. Canyons, reefs, volcanos and cliffs are among the formations explained in brief terms. Illustrations help to make the definitions understandable to young readers.

BURT DOW: DEEP-WATER MAN. Robert McCloskey. The Viking Press. 1963. Grades K-2. 63 pages. Fiction.

A tall-tale about a fisherman who catches a whale by the tail and then bandages it with striped bandage. The events that happen afterward will hold the interest of the reader. Large, colorful pictures make this a book which should be enjoyed by even the youngest students.

CAPTAIN COOK. H. Bellis. McGraw-Hill Book Co. 1968. Grades 5-6. 60 pages. Biography.

A biography about the British explorer, Captain James Cook. Includes details about his voyages. Pencil drawings and maps are used for further explanation.

CAPTAIN COOK: PACIFIC EXPLORER. Ronald Syme. Wm. Morrow & Co. 1960. Grades 3-4. 96 pages. Biography.

A biography about the British explorer, James Cook. Realistically traces his life from his early boyhood to his death. Details of his explorations are woven into a story geared towards 9- or 10-year olds.

CATCH A WHALE BY THE TAIL. Edward R. Ricciuti. Harper & Row Publishers. 1969. Grades K-3. 61 pages. Fiction.

The interesting story of an expedition to catch a companion and mate for a small white whale in an aquarium. The attractive illustrations are cartoons.

THE CHALLENGE OF THE SEAFLOOR. Adelaide Field. Houghton Mifflin Co. 1970. Grades 7-12. 133 pages. Informational.

The story of the development of the submarine with particular emphasis given to the scientific research vessel, the Alvin. Traces the development of Alvin and details its journeys. Closes on an ecological regard for the presentation of the sea. A high interest book for the student interested in mechanical means of underwater exploration.

THE CHANGEABLE WORLD OF THE OYSTER. Joseph J. Cook. Dodd, Mead & Co. 1974. Grades 7-8. 80 pages. Informational. #109

This is quite a thorough development of the subject including anatomy and reproduction, predators, disease and environmental problems. There are very interesting sections on the history, the culture and harvesting of oysters, and finally how to eat them. Bibliography, index and black-and-white photographs.

THE CRAB FROM YESTERDAY: THE LIFE CYCLE OF A HORSESHOE CRAB. John F. Waters. Frederick Warne and Co., Inc. 1970. Grades K-5. 40 pages. Fiction. #111

The life history and ecology of the horseshoe crab are woven into a fictional account of a small boy's day of beachcombing. Mr. Waters is a very sensitive writer. Illustrations by W. T. Mars also make this a highly commendable book.

CRABS. Herbert and Lucretia Krantz Zim. William Morrow & Co. 1974. For beginners and others. 64, 8" x 11" hard-bound pages. Informational. #101, #102

Quite a thorough and well illustrated manual on common crabs with brief introductions to anatomy, life cycle, behavior, and identification. A one-page index.

CREATURES OF THE DEEP. Agnes McCarthy. Prentice-Hall, Inc. 1963. Grades 5-6. 79 pages. Informational.

A book about various kinds of life in the sea. Some are familiar and all are intriguing. Much information about life in the sea is presented.

THE CURIOUS WORLD OF THE CRAB. Joseph J. Cook. Dodd, Mead & Co. 1970. Upper middle school and others. 96 pages. #201 Informational.

Illustrated mostly by black-and-white photographs. There is a chapter on crabs in general as crustaceans and 39 pages describing various crabs of the world. One chapter is devoted to a non-crab, the horseshoe crab (Limulus), as a living fossil and there is a short discussion on crab mythology. The last chapter deals with crabs as seafood for people.

DEEP-SEA WORLD: THE STORY OF OCEANOGRAPHY. Charles Coombs. Wm. Morrow & Co. 1966. Upper Intermediate--Middle School. 251 pages. #204 Informational.

Tells about the ocean and man's uses and abuses of it. Begins with how the oceans were formed and presents all the aspects of the sea. Terminology related to the study of oceanography is explained in context, indicating this book would be of value to a student with high interest in this area. Charts and photographs are numerous.

DISCOVERING THE AMERICAN STORK. Jack Denton Scott and Ozzie Sweet. Harcourt, Brace and Jovanovich, Inc. 1976. Upper Intermediate. 64 pages. #206 Informational.

A factual account of the life of the American stork, a recently discovered species. Myths about the stork are also explained. The flourishing of the species in modern times is researched for the reader. The book would be valuable to someone with high interest or as a reference book about the American stork. Presents unique qualities of American wood stork and discusses efforts to preserve the species in Florida. Black-and-white photographs.

DOLPHINS! Margaret Davidson. Scholastic Book Services. 1975. Beginning readers. 48 pages. Informational.

Describes the life of dolphins. Illustrated generously in monochrome. Very elementary.

THE EDGE OF THE SEA. Rachel L. Carson. Houghton Mifflin Co. 1955. Upper Middle School-High School. 251 pages. #3, #206, #208 Informational.

The plant and animal life environments of the coral reef, sandy beach, and rocky coast are explored in this book. The author attempts to develop an appreciation of sea and surf. Accurate scientific insights are written in a literary style. Labeled pencil sketches of marine plants and animals make this a reference and guidebook for interested people.

ELISABETH AND THE MARSH MYSTERY. Felice Holman. The Macmillan Co. 1966. Lower Intermediate. 49 pages. #108 Fiction.

A mystery story that offers information as well as intrigue. Elisabeth and a friend try to identify strange calls from the marsh. In doing this they learn about bird migration. The facts in this book do not seem dull because humor is maintained through story-telling.

ELISABETH, THE TREASURE HUNTER. Felice Holman. The Macmillan Co. 1964. Lower Intermediate. 42 pages. #102 Fiction.

A story about Elisabeth, Papa, and a friend who are looking for hidden treasure. The person who hid the treasure gave them clues. In trying to follow the clues, they discover life on the shore. The plot of the story overshadows information about marine life in this story.

EXPLORERS OF THE DEEP. Donald W. Cox. Hammond, Inc. 1968. Middle School. 93 pages. Biography. #204

This book tells the stories of eighteen men who have made contributions to the study of the sea. It begins with Benjamin Franklin and concludes with contemporary oceanographer Roger Revelle. A chapter is devoted to future technological explorations of the ocean.

EXPLORING A BROOK: LIFE IN THE RUNNING WATER. Winifred and Cecil Lubell. Parents Magazine Press. 1975. Lower Intermediate. 61 pages. #3, #108, #114 Informational.

A one- or two-page explanation of the various kinds of plant and animal life found in and near a brook. Pencil sketches illustrate each description.

EXPLORING AN OCEAN TIDE POOL. Jeanne Bendick. Garrard Publishing Co. 1976. Grades 2-4. 64 pages. #3, #101, #102, #106 Informational.

Examines the ecosystem of a tide pool. Discusses tides, tidal zones, the formation of tide pools, the plants and animals found in a tide pool, and the effects of pollution on a tide pool and the ocean. Both color and black-and-white photographs included.

EXPLORING AND UNDERSTANDING OCEANOGRAPHY. Anabel Dean. Benefic Press. 1970. Lower and Upper Intermediate. 96 pages. #204 Informational.

A question-and-answer format is used to explain the fundamentals of oceanography. It begins with a description of the planet Earth; tells about currents, waves, and tides; and concludes with a discussion of underwater exploration and treasures from the sea. Each chapter concludes with questions and simple experiments. A resource book that would be of value for a learning experience about oceanography.

FAMOUS SMALL BOAT VOYAGES. Walter Buehr. G. P. Putnam's Sons. 1966. Grades 4-6. 128 pages. #110 Informational.

Discusses the preparations and adventures of the crews of nine small boats on long and hazardous voyages. Included are tales of the first Atlantic crossing by a lone woman, the first Atlantic crossing in a rowboat, and the first single-handed cruise around the world. Illustrated with two-color sketches.

A FIELD GUIDE TO THE SHELLS OF OUR ATLANTIC AND GULF COASTS. Percy A. Morris. Houghton Mifflin Co. 1951. Middle School-High School. 228 pages. Informational.

Primarily an identification guide to over 500 kinds of shells. Also tells about the life-styles of many sea animals. Provides information about emptying shells, recording finds, and classifying and associating different kinds of shells.

FINS AND TAILS: A STORY OF STRANGE FISH. Elizabeth A. Campbell. Little, Brown & Co. 1963. Lower Intermediate. 58 pages. Informational.

A story about different kinds of fish found in the oceans. Using analogies (e.g., swimming balloon for puffer), the author describes some varieties of strange fish in simple sentences. Pictures accompany each description.

THE FIRST BOOK OF THE OCEAN. Sam and Beryl Epstein. Franklin Watts, Inc. 1961. Upper Intermediate. 70 pages. #208 Informational.

An exploratory book about oceans including tides, waves, currents, the ocean floor, continental shelves and slopes. Life in the ocean is discussed and future hopes for the world in the ocean are noted. Illustrated with sketches.

THE FIRST BOOK OF THE SEASHORE. Wyatt Blassingame. Franklin Watts, Inc. 1964. Upper Intermediate. 58 pages. #3 Informational.

A description of the seashores of the world. Tells about the plant and animal life found there and the processes that affect it. The author attempts to impart understanding of things seen at the seashore. Pencil sketches illustrate some of the forms of plant and animal life.

FISHES. Brian Wildsmith. Franklin Watts, Inc. 1968. Primary. 34 pages. Informational.

A picture book about names given to different groups of fish. Illustrated in shimmering colors. Geared to the primary student but holds aesthetic enchantment for lower intermediate groups.

FISHES. Loren P. Woods. Follett Publishing Co. 1969. Grades 3-6. 32 pages. Informational.

This excellent book on fishes discusses their evolution, distribution, and ecology. The book is enhanced by Tom Dolan's brilliant color illustrations. The sections on coral reef fishes, deep-sea fishes, and fishes of the West Indies are particularly well done.

FISHES. Herbert S. Zim and Hurst H. Shoemaker. The Golden Press. 1955. Middle School and others. 160 pages. Informational.

For the identification of the common fresh and salt water fishes of North America. Species are identified by color pictures. Common and scientific names are given. Useful guide for beginners.

FISHING FOR TUNA. Lewis Allison. Melmont Publishers, Inc. 1957. Lower Middle School. 35 pages. Informational. #104, #105

The ships, nets, and procedures of catching tuna are well described. Good monochrome illustrations of tuna and tuna fishing.

FISH IS FISH. Leo Lionni. Pantheon Books, Inc.. 1970. Grades K-2. Fiction.

An enchanting story about the way a fish imagines the outside world as described to him by a worldly frog who's seen it. Beautiful illustrations.

THE FLYING LESSONS OF GERALD PELICAN. Nathaniel Benchley. Harper & Row Publishers. 1970. Grades K-3. 32 pages. Fiction.

Clever dialogue as seaside animals attempt to deal with the predicament of a rash young pelican. Each friendly bird has its own advice on how to fly and there's a happy ending. Attractive drawings.

FOUR WALRUSES FROM ARCTIC TO OCEANARIUM. Lou Jacobs, Jr. Wm. R. Scott, Inc. 1968. Grades 7 and up. 62 pages. Informational.

A factual account of the development of four walruses captured in Alaska and raised in California. Actual photographs of the walruses all during development are included. The author speaks of the walruses with affection and describes each one as an individual with unique personality traits. A unique book.

FRESH WATER FROM SALTY SEAS. David O. Woodbury. Dodd, Mead & Co. 1967. Grades 6-12. 96 pages. Informational.

All of the industrial methods of desalination that show promise are reviewed. Some of the technical passages may require studied reading. The book is indexed and contains about 35 photographs and drawings. David O. Woodbury is the author of more than 31 science books for children.

THE FRIENDLY DOLPHINS. Patricia Lauber. Random House. 1963. Grades 4-6. 79 pages. Informational.

Many different aspects of the dolphin are covered: the history of the dolphin as a friend of man; its physical make-up and similarities to other species; and its unique sonar talents. Photographs and sketches are included.

FROGS MERRY. Juliet Kepes. Pinwheel Books. 1973. Grades K-1. Fiction.

A light-hearted story that discusses the interactions of species in a pond. Adorable blue, green and black illustrations provide a pond atmosphere.

GREAT SEA POETRY. Willard Bascom, ed. Compass Publications, Inc. 1969. Upper Middle-High School. 119 pages. #204 Poetry.

Includes poems by Rudyard Kipling, A. A. Milne, John Masefield, Lewis Carroll, Matthew Arnold, Robert Browning, Oliver Wendell Holmes, Sir William Gilbert, John Gray, and J. Frank Stimson. The poetic nature of the sea becomes evident as one reads the descriptive emotion-filled lines. A glossary of special words and a gazetteer of places (listed by poem) is included.

GREAT STEAMBOAT MYSTERY. Richard Scarry. Random House. 1975. Grades K-2. Fiction.

Mr. and Mrs. Pig staged a party on a steamboat and hired two detectives to protect the wedding gifts. Nevertheless, there's a theft and quite a mystery until the clever detectives bring the story to a happy ending. Attractive cartoon illustrations.

THE GREAT WHALES. Herbert S. Zim. Wm. Morrow & Co. 1951. Grades 3-6. Informational. #204

An extremely detailed description of the physiology of the whale. Different species and habits of whales are discussed and depicted by black-and-white drawings. Large print would probably make this book appealing to young whale enthusiasts.

GULLS. Sarel Eimerl. Simon and Schuster. 1969. Grades 4-8. 64 pages. Informational. #202

Nature writer Sarel Eimerl describes various members of the gull family, their feeding and hunting habits, and their migratory and courtship behavior. Illustrated with 30 black-and-white photographs. Index included.

HALIC: THE STORY OF A GRAY SEAL. Ewan Clarkson. E. P. Dutton & Co. 1970. Upper Middle School. 158 pages. Fiction.

The author's excellent literary skills are evident by the realistic descriptions in this fascinating story of the life of Halic, a gray seal. Several appropriate illustrations make the natural setting even more convincing.

HARVESTING THE SEA. D. X. Fenten. J. B. Lippincott Co. 1970. Grades 4 and up. 58 pages. Informational. #3, #201, #209

A good reference for learning about the riches found in the sea (plants, animals, and minerals) and careers related to the harvesting of these riches. Photographs and sketches are good.

HARVEY'S HIDEOUT. Russell Hoban. Scholastic Book Services. 1972. Grades K-3. Fiction. #108

The story of a rivalry between a brother and sister muskrat who soon realize they are lonely and need each other. Good for children with brothers and sisters. Cute brown illustrations.

HIGH WATER AT CATFISH BEND. Ben Lucien Burman. Puffin Books. 1974. Grades 4 and up. 123 pages. Fiction.

Enchanting story of five animals who realize they must forget their personal problems and work together. Their home is the Mississippi flood plains and they are disgusted with the way humans are controlling floods. They unite to do something about it.

HOMES BENEATH THE SEA: AN INTRODUCTION TO OCEAN ECOLOGY. Boris Arnov, Jr. Little, Brown & Co. 1969. Grades 7-9. 131 pages. Informational.

Each of the chapters deals with a different habitat in and near the sea: seashore, continental shelf, open sea, coral reef, and the high seas. The book contains well written passages but it suffers from poor organization. A book of this sort should have a bibliography: this one doesn't. The photographs are good.

HORSESHOE CRAB. Robert M. McClung. Wm. Morrow & Co. 1967. Lower Intermediate. 48 pages. Fiction. #101, #102, #103, #111

Describes the life cycle of the horseshoe crab, an animal that is a common sight along the Atlantic coastline. Also describes the parts of the horseshoe crab one can observe at the beach. Black-and-white sketches illustrate and add much detail to the text.

HOUSES FROM THE SEA. Alice E. Goudey. Charles Scribner's Sons. 1959. Primary. 32 pages. Fiction. #101, #102, #103, #106, #109

The story of two children who spend a day on the beach collecting shells. Common names of the shells are given in the story. A section at the end of the book shows shells and their names. Author has included two pages explaining how shells are formed. Teacher would read this section to the group. Accurate and imaginative pictures in delicate colors are included.

THE HOW AND WHY WONDER BOOK OF SEA SHELLS. Donald F. Low. Grosset & Dunlap. 1974. Grades 3-6. 48 pages. #101, #102, #103, #106 Informational.

A good research book that simply and factually answers just about any questions a youngster might have about shells.

HOW TO KNOW THE AMERICAN MARINE SHELLS. R. Tucker Abbott. The New American Library. 1961. Grades 7 and up. 222 pages. #201 Informational.

Abbott divides his reference book into two parts. In his Natural History section he discusses the mechanics of having shells as a hobby--collecting and cleaning shells, and organizing shell collecting clubs. In the Identification section he describes each type of shell in great detail and refers the reader to color plates included.

IN THE DEEP BLUE SEA. Elizabeth Morgan, Prentice-Hall, Inc, 1962, Upper Intermediate-Middle School. 70 pages. Informational.

An account of the sea--its explorations, ocean mining, oil-drilling, harvesting of ocean crops, and fossils of the deep. The book also includes simple explanations of some jobs which can be found involving working under the sea. A beginning study of oceanography. Acquaints reader with the past and present research, underwater archaeology, biology, and the importance of the sea for the future.

ISLAND OF THE BLUE DOLPHINS. Scott O'Dell. Houghton Mifflin Co. 1960. Grades 6 and up. 184 pages. #204 Historical Fiction.

An account of a young native girl's life alone on the "Island of the Blue Dolphins." This fascinating tale is based on facts recorded by ship captains that actually knew the girl. A must for adventure lovers.

ISLANDS: THEIR LIVES, LEGENDS AND LORE. Seon and Robert Manley. Chilton Book Co. 1970. Grades 10-12 383 pages. Informational.

This book is a collage of island lore, love, lure, and legend. Perhaps it is for the teacher who would chuck it all and, if vicariously, sail to those remote insular specks that populate the ocean realm. The book is generously illustrated and contains more history than science.

JOHN TABOR'S RIDE. Blair Lent. Atlantic Monthly Press. 1966. Lower Intermediate. 48 pages. Fiction.

A tall tale about a shipwrecked man named John Tabor who hitches a ride on a whale from the South Seas to his home in Nantucket. He has a traveling companion and together they have an encounter with Neptune. Detailed illustrations add interest to the story.

JUNIOR SCIENCE BOOK OF SEA SHELLS. Sam and Beryl Epstein. Garrard Publishing Co. 1963. Primary. 62 pages. #101, #102, #106, #109 Informational.

A very elementary introduction to mollusks including some without external shells (squid). An effort is made to classify and show geographical distribution of the shells. Includes an index and black-and-white illustrations.

KERMIT THE HERMIT. Bill Peet. Houghton Mifflin Co. 1965. Primary and Lower Intermediate. 48 pages. #102, #103, #106 Fiction.

A story, told in rhyme, about a selfish crab who is a hermit. An act of kindness by a young boy and its effect on the crab convey the message of this book. The drawings that accompany the story add a lot of detail to the text. A good book to read aloud to children.

LANDS ADRIFT: THE STORY OF CONTINENTAL DRIFT. Malcolm Weiss. Parents Magazine Press. 1975. Grades 4-6. 63 pages. Informational.

A readable and enjoyable discussion of how land has drifted and changed over millions of years. Also presents historical hypotheses of how this occurs.

THE LAST FREE BIRD. Harris A. Stone. Prentice-Hall, Inc. 1967. All grades. Fiction. #104

A plea to save our environment is made in this picture book for all ages. Beautiful water color illustrations.

LET'S EXPLORE A TIDE POOL. Bruce E. Tatje and Mark A. Weise. Science Dept., Martin County High School, Stuart,FL. 1971. Grades 2 and up. 39 pages. #3, #102, #103, #106 Informational.

A clear, concise guidebook for exploring a tide pool. The environment and the organisms found in it are described and often sketched. An asset to a group of young marine biologists.

LET'S FIND OUT ABOUT THE OCEANS. David C. Knight. Franklin Watts, Inc. 1970. Grades 3-5. 59 pages. #106 Informational.

The size, names, tides, and living things of the oceans are discussed in this book. Some of the concepts may be difficult for young readers. Also, there are only two pages dealing with plants. Simplified black-and-white illustrations.

LET'S GO ON A TURTLE WATCH. Diana Hart and Larry Crary. Martin County High School, Stuart, FL. 1970. Grades 3 and up. #101, #114 Informational.

A well presented field guide for young children interested in turtles and their habitats. Bibliography included.

LET'S GO TO THE BEACH. Ken Walker, et al. Hurricane House Publishers, Inc. 1969. Grades 3 and up. #102, #103, #106, #109 Informational.

A simple but highly informative guide to Florida beach ecology. Designed for use while observing marine life. Simple black-and-white illustrations are intended to be colored accurately by observers.

LET'S GO TO THE SEASHORE. Harriet E. Huntington. Doubleday & Co. 1941. Grades K-4. 89 pages. Informational. #102, #103, #106, #109

Pictures what a child might encounter during a walk along the seashore. Even-numbered pages bear photographs of marine animals. Odd-numbered pages contain reading material describing the animals in the photographs. This book is included in the American Library Association's list of 1,000 basic books for elementary school libraries.

LET'S LOOK AT SEASHELLS. Phyllis J. Perry. T.S. Denison & Co., Inc. 1971. Grades K-2. 32 pages. Informational. #101

Beautiful watercolor illustrations and clear concise text help the young child learn about the various types of shells found on the beach.

LIFE IN A POND. Carmelita Kipple Robinson, et al. Golden Press. 1967. Primary. 28 pages. Informational. #3, #101, #108, #114

Presents the living things of a pond with labels and a few words of text. Only two pages on plants. The animals represented include common fishes, frogs and toads and their life cycles, snakes, turtles, salamanders, snails, crayfish, insects and birds. Attractively hard-bound.

LIFE IN PONDS. Jean Gorvett. American Heritage Press. 1970. Middle School and up. 31 pages. Informational. #3, #108, #114

An introduction to the living things in a pond and how to fish and observe them. The common plants of freshwater ponds are attractively and accurately illustrated in color and very briefly discussed (about one page). There is one page on the smaller invertebrates, three nicely illustrated pages on mollusks, and an appealing eight-page section on insects. The reptiles are accorded one page, the amphibians three, fishes one, birds two, and mammals (the muskrat) one. The remaining five pages are divided into sections on worms, scavengers, parasites, aquariums, and record keeping. There is no bibliography or index.

LIFE IN THE SEA. Gwynne Vevers. McGraw-Hill Book Co. 1965. Lower and Upper Intermediate. 42 pages. #3, #102, #106 Informational.

An informative, handsomely illustrated book about forms of sea life. The author attempts to impart understanding of what the sea is like and how it is explored.

THE LIFE OF SEA ISLANDS. N. J. and Michael Berrill. McGraw-Hill Book Co. 1969. Grades 3 and up. 231 pages. Informational.

A very complete reference that discusses many islands and their origins, wildlife, and importance. Outstanding photographs and illustrations. A top-notch reference.

THE LIFE OF THE MARSH. William A. Niering. McGraw-Hill Book Co. 1966. Grades 6-12. 232 pages. #202, #203, #206, #230 Informational.

Maintains the high standards of the books in this series. One section describes the distribution of the eight types of wetlands in the United States. Another section describes the energy flow through wetland ecosystems. Contains about 200 illustrations, many in color. A glossary, appendices, a bibliography, and an index are included.

THE LIFE OF THE OCEAN. N. J. Berrill. McGraw-Hill Book Co. 1966. Grades 6-12. 232 pages. Informational. #3,

Discusses the wide variety of plants and animals found in different parts of the ocean. Beautifully illustrated with many photographs, many of which are in color. The appendix includes a section on starting and maintaining a marine aquarium. A glossary, bibliography, and index are also included.

THE LIFE OF THE SEASHORE. William H. Amos. McGraw-Hill Book Co. 1966. Grades 7-12. 231 pages. #3, #102, #103, #106, #208 Informational.

Describes the diverse kinds of marine shore life to be found in and around sandy beaches, tidal flats, rocky cliffs, etc. Richly illustrated in vivid color, including many of the author's photomicrographs. The book, like others in the series, describes life in terms of ecological patterns and relationships. There are five appendices, a glossary, a bibliography, and an index.

LITTLE CALF, adapted from YEAR OF THE WHALE. Victor B. Scheffer. Charles Scribner's Sons. 1970. Upper Intermediate. 140 pages. Fiction.

This is the fictionalized, but biologically accurate story of a young sperm whale during his first year of life. Illustrated.

THE LITTLE ISLAND. Golden MacDonald. Doubleday & Co. 1946. Grades K-4. 40 pages. Fiction.

The ecology of an island is taught using simple prose and full-page watercolors. An important lesson is that the island is part of the nearby land. This book won the 1947 Caldecott Medal for the most distinguished picture book for children.

THE LIVING SEA. Ritchard Read. Penguin Books, Inc. Middle School and up. 48 pages. Informational. #3

Very briefly introduces the organisms of the sea. Some are nicely illustrated in full color, including plankton, seaweeds, mollusks, crustaceans, fishes, and mammals. Very brief attention is given to vertical migration, food chains, food pyramids, geography, and evolution. There is a list of oceanographic expeditions, a list of suggested readings, and a one-page index. No. 11 of the Explorer Series. Paper cover.

LOBSTERMAN. Dahlov Ipcar. Alfred A. Knopf, Inc. 1962. Grades 4 and up. 38 pages. Fiction. #106

Color paintings profusely illustrate the work of the lobsterman, his clothing, his boat, the traps, and the lobsters. A boy helps prepare the boat and equipment and finally enjoys a lobster dinner.

THE LONG VOYAGE. THE LIFE CYCLE OF A GREEN TURTLE. Alvin and Virginia Silverstein. Frederick Warne & Co. 1972. Middle School and others. 48 pages. #101 Fiction.

The life cycle of the green sea turtle is traced by a team of scientists and a young boy on a long, hazardous journey across hundreds of miles of open ocean. A glimmer of insight into marine research and the balance of nature may be achieved.

MAGIC OF THE SEA. Max Albert Wyss. The Viking Press. 1968. All ages. 86 pages. Informational.

Superb photographs of the sea and its inhabitants are combined with essay and poems to make a moving essay about people and the sea. The influence of the oceans on human cultures is impressively developed. A handsome book.

MAN EXPLORES THE SEA. Malcolm E. Weiss. Julian Messner. 1969. Upper Middle School and others. 110 pages. Informational. #204

The story of the three Sealab expeditions in which man lived for many days at the bottom of the sea and of other explorations of the ocean depths. Illustrated with black-and-white photographs. Glossary and index.

A MAP IS A PICTURE. Barbara Pinkoff. Thomas Y. Crowell Co. 1965. Upper Elementary School and others. 35 pages. Informational.

Various kinds of maps and charts and their symbols are introduced. This brief experience could lead to many educational experiences.

MARSHES AND MARSH LIFE. Arnold Dobrin. Coward-McCann. 1969. Grades 4-8. 47 pages. Informational. #3, #202, #203, #206, #230

The author successfully describes marsh life in terms of the effects that seasonal changes and tidal fluctuations have on the marsh's inhabitants. The well written book is illustrated with the author's brilliant watercolors. A strong case is made for marsh conservation.

MEET THE MEN WHO SAILED THE SEA. John Dyment. Random House. 1966. Lower Middle School. 85 pages. #110 Informational.

A historical treatment of sailing craft and sailors from log canoes and reed boats to clipper ships. It ends with a brief account of Slocum's solo voyage around the world in 1895. Famous mariners included Eric the Red, Marco Polo, Magellan, Cook, and Francis Drake. Nicely illustrated with monochrome drawings.

MISS PICKERELL GOES UNDERSEA. Ellen MacGregor. McGraw-Hill Book Co. 1953. Grades 4-8. 125 pages. Fiction.

What a fun way to learn about sonar, atomic-powered submarines, and under-the-sea salvaging. The always unpredictable Miss Pickerell must use these things in the recovery of her priceless Mars rocks that were being transported on a ship that sank.

MOON JELLY SWIMS THROUGH THE SEA. Marie M. Jenkin. Holiday House. 1969. Grades K-4. 48 pages. Fiction. #102, #103, #106

This book provides a useful service to children's literature in that it supplies authentic information about the life cycles of jellyfishes without personifying them. The colorful illustrations are by Rene Martin.

MY SEA. Hermann Fay. Hubbard Press. 1974. Grades K-1. ABC book. Informational.

An excellent book to reinforce the alphabet for a child interested in the sea. Beautifully detailed illustrations. But words beginning with h, i, j, l, n, q, r, u, v, x, y, and z are not included. Probably intended as a reference book by the author. Individual pictures are labeled with capitals and lower case letters in the words. Drawings are the book's strongest feature.

THE MYSTERY OF THE RED TIDE. Frank Bonham. E. P. Dutton & Co. 1966. Upper Intermediate. 128 pages. #3, #214 Fiction.

Exciting tide-pool exploring on the Pacific Coast along with solving a mystery make for an exciting summer for Jill and her newly arrived cousin Tommy from Kentucky.

NETS OVERBOARD! Jack Coggins. Dodd, Mead & Co. 1965. Grades 6 and up. 96 pages. Informational. #201, #202, #209

An account of the methods used in the fishing industry. Oceanography and life in the sea are also discussed. Many supporting pictures and captions.

NINE TRUE DOLPHIN STORIES. Margaret Davidson. Scholastic Book Services. 1974. Grades 3-6. 64 pages. Informational.

Nine amazing stories about dolphins--most in natural habitats, some in man-made surroundings. Pleasant reading. The few illustrations are cartoon-like.

NORTH, SOUTH, EAST, AND WEST. Franklyn M. Branley. Thomas Y. Crowell Co. 1966. Grades 3 and up. Informational. #105

The useful skill of knowing how to determine directions is dealt with here. Shadows, compasses, and maps are used to help determine north, south, east, and west. Simple, clear illustrations.

THE OCEAN WORLD. Peter Ryan. Penguin Books, Inc. 1973. Grades 7 and up. 48 pages. Informational.

The ocean itself and almost everything that affects it is covered by Ryan's short but informative book. A bit of history of the exploration of the undersea world is presented including pictures of an early diving bell and undersea saucers. A good introduction to the ocean's wealthy potential--oil, minerals, and hydro-electric power.

OCTOPUS LIVES IN THE OCEAN. William and Peggy Stephens. Holiday House. 1968. Middle School. 47 pages. #106 Fiction.

Does a good job of describing the life of an Atlantic octopus for young readers. The book is well illustrated mostly in black-and-white, and the common neighbors of the octopus are introduced in interesting accounts of day-to-day events.

OF MEN AND MARSHES. Paul L. Errington. The Iowa State University Press. 1957. Grades 8-12. 150 pages. #202, #208, #230 Informational.

This is a book of memories and philosophy by a man who rose from fur trapper to college professor. It describes marshes all over America, but dwells on the glaciated prairie marshes of the Dakotas. The 23 illustrations are excellent but do not have captions. There is no index. The author's knowledge of marsh ecology makes this a very worthwhile book.

PADDLE-TO-THE-SEA. Holling Clancy Holling. Houghton Mifflin Co. 1941. Grades 3-5. Fiction. #110

An excellent book for learning about the flow of water from the snow on a mountaintop to salt water in the ocean. A young Indian boy carves an Indian in a canoe that he places in the snow on a mountain near the Great Lakes. The book traces its voyage to the Atlantic Ocean. Wonderful illustrations.

PAGOO. Holling Clancy Holling. Houghton Mifflin Co. 1957. Grades 3-9. 87 pages. Fiction. #101, #102, #103, #106, #109

This book tells the story of Pagoo, a hermit crab, from larvation to maturity. Life in the tidal pool is not easy. There is a chronic housing shortage. Risks are incurred in the love-making adventure. This complete book has 20 full-page color drawings and numerous marginal illustrations.

PEA PATCH ISLAND. Polly Curran and Ronald Himler. Western Publishing Co. 1975. Beginning readers. 32 pages. Historical Fiction.

Tells a legend of how Pea Patch Island in the Delaware River got its name. Very attractive color illustrations with a very simple text. A pleasant story that could lead to other interesting assignments, at least for Delawareans.

THE PENGUINS ARE COMING! R. L. Penney. Harper & Row Publishers. 1969. Grades K-4. 63 pages. Informational.

R. L. Penney, a research zoologist at the Bronx Zoo, tells what he learned about Adelie penguins on five trips to Antarctica. The book contains detailed and accurate information for the beginning reader. The 35 drawings by artist Tom Eaton are bold and imaginative.

PENGUINS, OF ALL PEOPLE! Don Freeman. The Viking Press. 1971. Grades 3-4. 30 pages. Fiction.

Color illustrations with a few words of text telling the story of ambassador penguins visiting the United Nations as delegates. Scenes of the Antarctic and New York City lead to the U.N. General Assembly where the penguins advise the human delegates to solve their problems as penguins do by "working, playing, and having fun together."

PENGUINS: THE BIRDS WITH FLIPPERS. Elizabeth S. Austin. Random House. 1968. Middle School. 84 pages. Informational.

Authoritative book about the lives of various species of penguins with good black-and-white photographs and a history of penguin naturalists. An index.

PIONEERS OF EARLY WATERWAYS. Edith McCall. Childrens Press. 1961. Middle School. 127 pages. Biography.

A collection of stories about early Americans on the canals and rivers. Includes stories about Davy Crockett, Mike Fink, and Mark Twain. A steamboat race is the climax.

POLAR BEAR. Kay McDearmon. Dodd, Mead & Co. 1976. Grades 1-4. 46 pages. Fiction.

Describes the life cycle, life-style, and habitat of the polar bear. Illustrated with black-and-white photographs.

THE POND. Donald and Carol Carrick. The Macmillan Co. 1970. Grades K-2. 33 pages. Informational. #3, #114

Contains little science, but the watercolors by artist Donald Carrick are good. They portray pond life in the style of oriental silk screens. The text by Carol Carrick is poetic, but too brief.

POND LIFE: A GUIDE TO COMMON PLANTS AND ANIMALS OF NORTH AMERICAN PONDS AND LAKES. George K. Reid. Golden Press. 1967. Middle School and others. 160 pages. #114 Informational.

Mostly a very usable manual for identification of a wide variety of common plants and animals of fresh water ponds, including birds and mammals. There is a very brief treatment of the physical features of a pond and of aquatic ecosystems, and a bibliography and five-page index. Useful for amateur pond watchers of all ages.

QUESTIONS ABOUT THE OCEANS. Harold Dubach and Robert Taber. U.S. Government Printing Office. Grades 3 and up. 121 pages. #3, #204 Informational.

Look up the question you want answered in the table of contents, turn to the page on which that question appears, and there you have it. One hundred questions are answered. Relevant diagrams and sketches are included. Simple, easy-to-use reference book.

QUESTIONS AND ANSWERS ABOUT SEASHORE LIFE. Ilka Katharine List. Four Winds Press. 1970. Upper Intermediate. 123 pages. #3, #101, #102, #103, #106, #109. Informational.

Excellent book. Uses a question-and-answer format to discuss the animals found near rocky, sandy, and muddy shores. Well illustrated.

THE QUEST OF CAPTAIN COOK. Millicent E. Selsam. Doubleday & Co. 1962. Grades 6 and up. 126 pages. Informational.

James Cook's efforts to explore uncharted oceans and lands come to life in this book. His travels took him around the world and resulted in the discovery of many new lands. Simple, yet effective illustrations.

THE RAINBOW BOOK OF NATURE. Donald Culross Peattie. Collins, William & World Publishing Co., Inc. 1957. Grades 3-6. 319 pages. Informational.

This lengthy resource book includes many different aspects of nature: ecosystems; plants and their unique characteristics; animals and their unique characteristics; the effects of temperature and surroundings on plants and animals; and the interactions between species. Factual text and life-like illustrations.

RED FOX AND HIS CANOE. Nathaniel Benchley. Scholastic Book Services. 1973. Grades K-2. 64 pages. Fiction.

A young Indian boy, Red Fox, wants the largest canoe in the world. Who would have guessed all the animals along the river would want to take a ride--all at the same time?

THE REMARKABLE DOLPHIN. Henry Chapin. Young Scott Books. 1962. Upper Intermediate. 92 pages. Informational. #204

An informational book about the life-style and life cycle of the dolphin. It gives specific information about the Tursiops truncatus, the dolphin that is familiar along the Atlantic Coast. The author explains the Tursiops' behavior, intelligence, and physiology. Illustrated with black-and-white drawings.

THE RISE AND FALL OF THE SEAS: THE STORY OF TIDES. Ruth Brindze. Harcourt, Brace & World, Inc. 1964. Upper Intermediate-Middle School. 91 pages. #214 Informational.

Good introduction to causes and effects, and dangers and uses of tides. Illustrated with black-and-white photographs and diagrams.

RIVERS. Delia Goetz. Wm. Morrow & Co. 1969. Upper Intermediate. 63 pages. Informational.

An exploratory book about the rivers of the world. What has been learned about them through history is discussed as well as how they are formed. Some famous rivers are also mentioned and the need for river conservation and water pollution controls is pointed out. Black-and-white drawings illustrate this book.

THE ROCKY SHORE. John M. Kingsbury. The Chatham Press, Inc. 1970. Grades 7 and up. 77 pages. #208, #225, #303 Informational.

The physical characteristics and land and sea flora and fauna of the New England Coast are described in great detail. The original state, subsequent development, and present state of the coastline are also depicted by excellent black-and-white sketches. An index of plant, animal, and rock types is included. May also serve as a practical field guide.

THE ROPE'S END. Reginald B. Hegarty. Houghton Mifflin Co. 1965. Grades 5 and up. 131 pages. Fiction. #110

At the age of 12, Hegarty made his first whaling voyage as a part of the crew on his father's ship. Life on a sailing vessel is not easy for such a mischievous boy. Amusingly, his actions frequently result in a meeting of the seat of his pants with a "rope's end." Exciting, charming, convincing.

SANDPIPERS. Edith Thacher Hurd. Thomas Y. Crowell Co. 1961. Grades K-2. Informational. #102, #103

Simple but descriptive words make this "Let's Read and Find Out Science Book" a pleasure. The child will surely come away with a clearer understanding of the sandpiper.

SCIENCE ON THE SHORE AND BANKS. Elizabeth K. Cooper. Harcourt, Brace & World, Inc. 1960. Informational. #3

Useful guide for observing, gathering, and studying various forms of plant and animal wildlife in shallow fresh and salt waters.

SCIENCE SHIP: A VOYAGE ABOARD THE DISCOVERER. Peter Briggs. Simon & Schuster. 1969. Grades 7 and up. 128 pages. #110 Informational.

The author fills us in on what he learned day by day aboard the Discoverer, a highly complex and sophisticated vessel designed to explore the sea in great detail. Photographs and captions are helpful.

SEA AND SHORE. Clarence J. Hylander. The Macmillan Co. 1950, Upper Intermediate-Middle School. 242 pages. #3, #201, #208, #112. Informational.

Very readable story of plants and animals that live on the shore. Seaweeds, mollusks, crustaceans, jellyfish, univalves, starfish, sand dollars, and sea urchins are among the forms of life described. The physical features of the ocean environment and how the organisms have adapted are also discussed. Illustrated with black-and-white photographs and diagrams.

THE SEA AROUND US. Rachel Carson. Franklin Watts. 1961. Golden Press. 1951. Grades 8-12. 259 pages. #3, #201, #204, #208, #214 Informational.

Miss Carson's famous book is the winner of many accolades, including the National Book Award. In the book she describes the sea in three different ways: the mother sea, the restless sea, and the sea's relationship with man, i.e., man and the sea about him. The book conveys knowledge of the sea in a language that often rises to poetic elegance.

SEABIRD. Holling Clancy Holling. Houghton Mifflin Co. 1948. Upper Intermediate. 60 pages. Fiction.

The story of an ivory carved gull created by a man on a whaling boat. The adventures of the gull, Seabird, as it passes through four generations of its creator, form the story. Scenes of the development of crafts of the sea, and finally air transportation, take the reader on a journey through America's past. Full-page color illustrations and pencil drawings along margin enhance the story.

SEA CAREERS. D. X. Fenten. J. B. Lippincott Co. 1970. Grades 4 and up. 162 pages. Informational.

An extensive listing of jobs related to the sea. Descriptions, qualifications, schooling, suggested salaries (now outdated), addresses of some sources for information and applications, and an index are included.

THE SEA EGG. Lucy M. Boston. Harcourt, Brace & World. 1967. Upper Intermediate. 94 pages. Fiction. #3

A story about two young brothers and their magical summer at the beach. After purchasing an unusual egg-shaped rock, they hide it in a pool of sea water and wait for it to hatch. The boys' adventures with what hatches weave this sea tale.

SEAHORSES. Lilo Hess. Charles Scribner's Sons. 1966. Lower Intermediate. 46 pages. Informational. #102

This book is about the life cycle of the sea horse. The physiology of the animal is discussed as well as others of its family in the marine environment. Directions for making an aquarium for sea horses are given. Black-and-white photographs are used throughout the book.

SEALS. K. M. Backhouse. Golden Press. 1969. Grades 8 and up. 96 pages. Informational.

Photographs (color and black-and-white) of seals in their natural habitats help make this such an impressive reference. The author initially describes many types of seals and later concentrates on the Grey seal and its life-style.

THE SEA SEARCHERS: MEN AND MACHINES AT THE BOTTOM OF THE SEA. Terry Shannon and Charles Payzant. Golden Gate Junior Books, 1968. Grades 3 and up. 93 pages. Informational.

A well organized book about the various machines used in exploring and working under the sea. Excellent photographs support the text. Very informative captions make the book easy to pick up and enjoy.

SEASHELLS IN ACTION. Audrey Newell. Walker Publishing Co. 1973. Grades K-4. 38 pages. Informational. #101

Describes twenty-five animals with shells including oysters, clams, scallops, conchs, and whelks. Includes paragraphs about the squid and the octopus. Illustrated with watercolors. A shell identification chart for teacher reference is included in the back.

SEA SHELLS OF THE WORLD. R. Tucker Abbott, Golden Press, 1962. Upper Intermediate and up. 162 pages. #101, #102, #103, #106, #109 Informational.

Outstanding pocket handbook. Comprehensive and well illustrated. Uses both common and scientific names.

SEASHORES: A GUIDE TO ANIMALS AND PLANTS ALONG THE BEACHES. Herbert S. Zim and Lester Ingle. Golden Press. 1955. Grades 5-12. 160 pages. #102, #103, #106, #107, #109 Informational.

About 460 forms of seashore life are described and illustrated in this book. It is attractive and authoritative. Its convenient hip-pocket size makes it a useful companion for anyone who frequents the beaches. There is an index with a list of scientific names of the plants and animals discussed.

SEASHORE STORY. Taro Yashima. The Viking Press. 1967. Primary. 18 pages. Fiction. #102, #103, #106, #107, #109

A legendary story about a Japanese fisherman who rides away on a turtle's back and lives for many, many years. This tale is being told to a group of ballet students who are camping at the seashore. Their questions about the tale are told to the reader also. Pastel drawings illustrate this book.

THE SECRET THREE. Mildred Myrick. Harper & Row Publishers. 1963. Primary. 64 pages. Fiction. #107

A story about three boys at the beach who form a club with secret signals, coded messages, passwords, and a meeting place. They have a campout on a beach island and explore dunes, shells, grasses, etc.

SEE ALONG THE SHORE. Millicent Selsam. Harper & Row Publishers. 1961. Lower Intermediate. Informational. #101, #102, #103, #107

Discusses some of the things children might wonder about as they walk along the beach: why the sea is salty; the formation of sand and dunes; sea shells and animals on the beach; tides and what causes them; and animal tracks in the sand. Also discusses the intertidal zone and insects found near the shore. Colorful illustrations show what is being described.

SEE THROUGH THE LAKE. Millicent Selsam. Harper & Brothers. 1958. Lower Intermediate. 48 pages. #3 Informational.

An explanation of lakes--how they were formed, what types of life they support, and the effect of the land around them. A description of specific types of life found at different levels of water is included. Pictures showing clearly what the author is discussing aid in understanding for the young reader.

SEE THROUGH THE SEA. Millicent Selsam and Betty Morrow. Harper & Row Publishers. 1955. Lower Intermediate. #3, #106 Informational.

A story about a journey into the depths of the sea and what things a person might see there. Animal and plant life at different depths are explored. The author uses a round insert diagram on every page to help show exactly what part of the sea is being explained.

SHRIMPS. Judy Hawes. Thomas Y. Crowell Co. 1966. Primary. 35 pages. Informational. #106

An informational book about the life cycle of shrimps. The author tells about their habits and how they grow. The reader would also find out about shrimps' long ocean voyages and what part this plays in their life cycle. A watercolor effect is used to illustrate this book.

SPRING COMES TO THE OCEAN. Jean Craighead George. Thomas Y. Crowell Co. 1965. Upper Middle School and others. 110 pages. Fiction.

The book consists of a series of well written accounts of various marine animals as spring approaches. Included are the hermit crab, turtle, man-of-war, octopus, porpoise, oyster, starfish, fishes, and some of the lower invertebrates. It ends with a chapter on the gray whale. Good reading. Sparsely illustrated with black-and-white drawings.

STARFISH. Edith Thacher Hurd. Thomas Y. Crowell Co. 1965. 35 pages. Informational. #3, #102, #103, #106, #109

A delightful introduction to the starfish. Its life-style and beauty are described with carefully chosen words. Fascinating illustrations give the reader a feeling of being near the sea.

STRANGE FISHES OF THE SEA. Olive L. Earle. Wm. Morrow & Co. 1968. Lower Intermediate. 63 pages. Informational.

An informational book about some creatures who live in the sea and who are thought to have strange shapes and habits. Compares sea and land animals, such as sea snakes and land snakes. Black-and-white pencil drawings illustrate this book.

THE SUNLIT SEA. Augusta Goldin. Thomas Y. Crowell Co. Lower Intermediate. 33 pages. Informational. #208, #209

An introductory book about the ecosystem of the undersea world as far down as sunlight penetrates (about 200 feet). Plant and animal life found at this level are described. Drawings done in three colors illustrate this book.

SURF'S UP! Arthur H. Klein and M. C. Klein. The Bobbs-Merrill Co. 1966. Upper Middle School and others. 224 pages.

A collection of 79 photographs and stories, cartoons, poems, and anecdotes about surfing. Great reading for devotees of the sport.

SWAN OF THE EAST. Edwin P. Hoyt. The Macmillan Co. 1968. Upper Middle School and others. 200 pages. Informational.

An account of the crew of the German cruiser Emden in World War I (1914) as they harrassed allied shipping in Pacific Ocean. After the Emden was sunk, they made their way to Constantinople and their allies. One of the great epics of naval warfare. Good reading.

SWIMMY. Leo Lionni. Pantheon Books. 1968. Primary. Fiction.

A picture book about a little fish who is left all alone after his family was eaten by a tuna. His adventures and his struggles to cope with the big fish after he meets a new "family" are the center of this story. Watercolors, used to produce a shimmering underwater effect, are used to illustrate this book.

TARO AND THE SEA TURTLES. Arnold Dobrin. Coward, McCann & Geoghegan. 1966. Lower Intermediate. Fiction.

A Japanese tale about a young boy who dreams of buying gold to gild the Buddha in the village. The realization of his dreams and his adventure to the island to purchase the gold are the focus of the story. Taro's kindness to the sea turtles is reciprocated in an exciting way. Illustrated with black-and-white drawings.

THREE BOYS AND A LIGHTHOUSE. Nan Hayden Agle and Ellen Wilson. Charles Scribner's Sons. 1951. Lower Middle School. 100 pages. #105, #110 Fiction.

A good story with a few black-and-white illustrations about the adventures of three boys who spend a summer helping to tend a lighthouse.

TIM TO THE RESCUE. Edward Adrizzone. Henry Z. Walck, Inc. 1949. Lower Intermediate. Fiction. #105, #110

A story about three boys who are part of the crew of a ship. Tim and Ginger develop a friendship and begin many adventures on the ship. Ginger's problems with his hair, and a hurricane are the major problems. Watercolor drawings illustrate this book.

TO THE BRINK OF EXTINCTION. Edward R. Ricciuti. Harper & Row Publishers. 1974. Grades 6 and up. 169 pages. Informational.

The stories of seven animals threatened with extinction are told: the Puerto Rican Parrot, the shaggy European Bison, Pere David's Deer, the Pine Barrens Tree Frog, the Bog Turtle, the Osprey, and the Gray Whale. The complexities and morality of saving living things from extinction are discussed. There is an index and very short bibliography. The illustrations are poor.

TRACKS BETWEEN THE TIDES. Elizabeth Shepherd. Lothrop, Lee & Shepard. 1972. Upper Intermediate. #101, #102, #106, Informational.

Discusses how to locate, dig up, and observe burrowing animals of the intertidal zone. Diagrams illustrate the variety of life forms that can be found.

TROPICAL FISH. Bruce W. Halstead and Bonnie L. Landa. Golden Press. 1975. Middle School and others. 160 pages. Informational.

Illustrated in color with instructions for setting up and maintaining an aquarium. Includes notes on fish health. Most of the book is an illustrated manual of tropical fish with notes on their care. Useful.

THE TRUE BOOK OF OCEANS. Katharine Carter. Childrens Press. 1958. Primary. 46 pages. Informational. #105, #106

An explanation about the oceans and their floors, surfaces, shores, tides, and currents. Includes a brief description of the plants and animals found in the oceans. Concludes with discussion of ways oceans help people.

THE TRUE BOOK OF PEBBLES AND SHELLS. Illa Podendorf. Childrens Press. 1954. Primary. 47 pages. Informational. #101, #102, #103, #106, #109

An explanation, with accompanying pictures, of how some of the pebbles and shells that might be found on a beach came to be there. The author identifies for the young reader what the shells look like.

THE TRUE BOOK OF SHIPS AND SEAPORTS. Katharine Carter. Childrens Press. 1963. Primary. 47 pages. Informational. #105, #110

A general descriptive book about different kinds of ships. A brief history of ships and their importance is given. The author closes with a chapter about different kinds of seaports and ways in which people depend on them.

THE TRUE BOOK OF TROPICAL FISHES. Ray Broekel. Childrens Press. 1963. Primary. 47 pages. Informational.

A book about tropical fishes, where they come from, and how they are caught and shipped to the United States. An explanation is then given about certain species that could be used in an aquarium. Pictures of types of equipment that could be used in an aquarium are included.

THE TRUE BOOK OF WHALES AND OTHER SEA MAMMALS. Elsa Posell. Childrens Press. 1963. Beginner readers. 47 pages. Informational.

This book is mainly about whales, but discusses walruses, seals, sea cows, porpoises, and sea lions. Mentions the need for control of the whaling industry. Illustrated with drawings.

THE TRUE STORY OF SIR FRANCIS DRAKE, PRIVATEER. Will Holwood. Childrens Press. 1964. Grades 5-6. 138 pages. Biography.

Tells the exciting adventures of the famous English privateer in his many encounters with the Spanish Navy in the sixteenth century. Good reading. Sparsely illustrated. No bibliography, but a two-page index.

TURTLES, TORTOISES, AND TERRAPINS. John Goode. Charles Scribner's Sons. 1971. Middle School and others. 63 pages. Informational.

Nicely illustrated with 26 black-and-white drawings of a wide variety of the world's "turtles." Describes something about their evolution, anatomy, reproduction, migration, and the problems man has caused them. There's instructions for keeping turtles as pets, a glossary, and index.

THE TWILIGHT SEAS--A BLUE WHALE'S JOURNEY. Sally Carrighar. Weybright and Talley. 1975. Upper Middle School. 179 pages. Fiction. #214.

Describes a blue whale's life and journey, including unhappy encounters with humans. Beautiful black-and-white drawings and interesting well written details make this a valuable reading experience. No bibliography or index.

UNDER THE SEA WIND. Rachel Carson. New American Library. 1941. Grades 7 and up. 157 pages. Fiction.

An obvious love and understanding of the interdependence and life of the sea is conveyed in Carson's book. She selects several animals of different species to follow closely as they affect and are affected by their environment. Beautifully written.

UNDERWATER ZOOS. Millicent E. Selsam. Wm. Morrow & Co. 1961. Grades 5 and up. 96 pages. Informational. #3

The building and maintenance of fresh and salt water aquariums are discussed in this book. Appropriate animals, plants, and water conditions are clearly cited for those who would like to begin their own underwater zoos. Simple drawings support the text.

VALLA: THE STORY OF A SEA LION. Dean Jennings. The World Publishing Co. 1969. Grades 9 and up. 172 pages. Fiction.

Conservation of a species and survival of the fittest are the main themes of this book. It follows the life of Valla, a sea lion, through natural interactions and competition with other species and through unnatural problems caused by man. Research about the sea lion is also dealt with. Some illustrations.

THE VIKINGS. J.R.L. Anderson. Penguin Books, Inc. 1974. Grades 5-6. 48 pages. Informational.

A kinder look at this infamous group than is usually seen. Their origin, life-style, voyages, crafts, and pirating raids are described. Color and pen-and-ink drawings help present a clearer picture of the Vikings' way of life.

THE VOYAGES OF COLUMBUS. Rex and Thea Rienits. The Hamlyn Publishing Group, Ltd. 1970. Upper Middle School and up. 151 pages. Informational.

Describes the life and time of Christopher Columbus, including early America, the European culture at the time, the four voyages, and the aftermath. Attractively and profusely illustrated with 47 color plates and many black-and-white illustrations. The problem Columbus had in gaining support for his proposals, and later, in fighting for recognition are well developed. There is a list of suggested readings and a two-page index.

THE VOYAGES OF DR. DOLITTLE. Hugh Lofting. J. B. Lippincott Co. 1950. Upper Middle School. 364 pages. Fiction.

The storybook that won an award as "the most distinguished contribution to American literature for children." Tells the story of Dr. Dolittle's voyage to Spidermonkey Island with young Tommy Stubbins during which they have continuous, fabulous adventures. The story has a happy ending and very few illustrations.

WATER AND MARSH BIRDS OF THE WORLD. Oliver L. Austin. Golden Press. 1967. 223 pages. Informational. #202

Describes the major groups of water and marsh birds with primarily generalized natural history narratives.

THE WAVES. Herbert Zim. Wm. Morrow & Co. 1967. Upper Intermediate. 63 pages. Informational. #102, #103, #104, #106, #107

Water in motion, better known as waves, is explained in this book. Technical studies of waves and their significance are discussed. Also mentioned are tidal waves, their past destructiveness, and current warning devices used by the Coast and Geodetic Survey. Illustrated with pencil drawings.

WEATHER OR NOT. Wallene T. Dockery. Abingdon Press. 1976. Grades 4 and others. 32 pages. Fiction.

Young people visit a weather station and are introduced to the basic principles of meteorology and how a weather forecast is made. Fictionalized format contains a lot of information.

WHAT DOES AN OCEANOGRAPHER DO? John F. Waters. Dodd, Mead & Co. 1970. Upper Intermediate. 64 pages. Informational.

Explains the science of oceanography and describes the work and studies of oceanographers. The biological, chemical, physical, and geological aspects of oceanography are delineated. Illustrated with black-and-white photographs.

WHEN THE TIDE GOES FAR OUT. Lorus and Margery Milne. Atheneum Publishers. 1970. Upper Intermediate. 88 pages. Informational. #214, #102

A description of the animals and plants that can be found on the beach "when the tide goes far out." Also describes how the tides are caused and why the sea is important. All new terms are explained.

WHERE THEY GO IN WINTER. Margaret Waring Buck. Abingdon Press. 1968. Upper Intermediate. 69 pages. Informational.

The author tells what happens to the many kinds of animals we see in warm weather when the cold weather arrives. Her discussion includes the part of the United States that has a cold winter season. The book is divided into chapters devoted to insects, fishes, birds, reptiles, amphibians, and mammals. Pencil drawings in the margins illustrate this book.

THE WHITE PALACE. Mary O'Neill. Thomas Y. Crowell Co. 1966. Lower Intermediate. 48 pages. Fiction (poetic story).

This is an animal fiction story that conveys information to the reader. It is the story of the life cycle of a Chinook salmon. His life begins and he moves into the "white palace." A plot develops and the author's descriptions of the fish's behavior and habitat are credible. Wash drawing illustrations are used in this book.

THE WONDERFUL WORLD OF THE SEA. James Fisher. Doubleday & Co. 1970. Upper Middle School and up. 96 pages. Informational. #3, #209

A comprehensive coverage of: the origins and physical features of the seas; the sea's living inhabitants and their contributions to evolution; and the role of the sea in war, transportation, and food production. There is a 22-page encyclopedic glossary and a three-page index.

THE WONDERS OF ALGAE. Lucy Kavaler. John Day Co., Inc. 1961. Upper Intermediate. 96 pages. Informational. #3, #202

Describes the current and possible future uses of algae.

WONDERS OF AN OCEANARIUM. Lou Jacobs, Jr. Golden Gate Junior Books. 1965. Middle School. 80 pages. Informational. #102

Discusses the life forms commonly found in large aquaria for public viewing and/or research. Well illustrated with black-and-white photographs. Close-ups of fish, octopi, turtles, seals, walruses, whales, otters, and dolphins are shown.

WORLD BENEATH THE OCEANS. T. F. Gaskell. Natural History Press. 1964. Middle School. 149. Informational. #204.

A reference book about man's adventures with the oceans of the world as they have developed from early times until the time of the book's publication. The floors of the oceans are described as are the movements of the water. Plant and animal life found in the deep are also described. Illustrated with drawings and photographs.

THE YEAR OF THE SEAL. Victor B. Scheffer, Charles Scribner's Sons, 1970, Upper Middle and others. 200 pages. Fiction.

By interweaving the lives of seals and humans, the author achieves a sensitive and engrossing account of a year in the life of an Alaskan fur seal. The viewpoint of the wildlife biologist is dominant and the writing is clearly authoritative but warm-hearted and sensitive. Bibliography and index are included.

THE YEAR OF THE WHALE. Victor B. Scheffer. Charles Scribner's Sons. 1969. Grades 7-12. 213 pages. Fiction., #204

Marine biologist Victor Scheffer wrote the story of a newborn sperm whale's first year of life. Straightforward scientific exposition is sandwiched in the fictionalized narration. The author has included six pages of reference notes and an annotated bibliography of seven whaling classics. There is an index also. This book won the 1969 Burroughs Medal.

YOU AND THE OCEANS. Diane Sherman. Childrens Press. 1965. Lower Intermediate. 61 pages. Informational. #214

An introductory book about oceanography. Explains the ocean's beginnings, the interaction of sea and land, the ocean floors, and movements of the oceans. Discusses discoveries from the sea and future possibilities for new uses of the ocean and its resources. Pastel drawings are used to illustrate this book.

YOU CAN MAKE SEASIDE TREASURES. Louis Beetschen. Pinwheel Books. 1971. Middle School and others. 32 pages. Informational. #102

Describes a number of arts and crafts activities that can be done with sand and other items commonly found on beaches. Included are sand molding, making shell necklaces, painting pebbles, building sand castles, and collecting shells. Also includes games to be played at the beach.

YOUNG SPORTSMAN'S GUIDE TO SURFING. Ross R. Olney. Scholastic Book Services. 1965. Upper Middle School and others. 96 pages.

An introductory surfing manual with black-and-white photographs. Practical pointers from experts. Inexpensively produced. Glossary included.

YOU WILL LIVE UNDER THE SEA. Fred and Marjorie Phleger. Random House. 1966. Primary. 61 pages. Informational.

A description about a visit to what the underwater world may really be like. A futuristic picture about what life may be like under the sea. Colorful pictures help make "future happenings" understandable to the beginning reader.